

Title (en)
APPARATUS FOR CONTINUOUSLY PRODUCING POLYISOCYANATE

Title (de)
APPARAT ZUR KONTINUIERLICHEN HERSTELLUNG VON POLYISOCYANAT

Title (fr)
APPAREILLAGE DE PRODUCTION DE POLYISOCYANATE EN CONTINU

Publication
EP 1867632 B1 20120307 (EN)

Application
EP 06730581 A 20060330

Priority
• JP 2006306633 W 20060330
• JP 2005108590 A 20050405

Abstract (en)
[origin: EP1867632A1] An apparatus for continuously producing polyisocyanate is provided for quickly contacting polyamine and carbonyl chloride in order to suppress an undesirable reaction between polyamine and polyisocyanate so that a by-product can be reduced and the yield of polyisocyanate can be improved. In a circulatory line 7, a material-mixing portion 8, a high-shear pump 3, a reactor 4, a liquid-feeding pump 5 and a cooler 6 are interposed in series along the direction of the flow of a reaction solution, thereby forming a closed line. In this apparatus 1, after polyamine and carbonyl chloride are supplied in the material-mixing portion 8, the reaction solution is sheared by the high-shear pump 3 in a state where the contact of the polyamine with the reaction solution is minimized. Thus, the formation of a urea compound as a by-product can be suppressed and the yield of polyisocyanate can be improved.

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